

## SEQUENCE LISTING

<110> Salceda, Susana  
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Sun, Yongming  
Liu, Chenghua

<120> Compositions and Methods Relating to Breast Specific Genes and Proteins

<130> DEX-0269

<150> 60/249,998  
<151> 2000-11-20

<150> 60/252,563  
<151> 2000-11-22

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<170> PatentIn version 3.1

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<223> a, c, g or t

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<210> 36  
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 <212> DNA  
 <213> Homo sapien

<400> 36  
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<210> 37  
 <211> 1547  
 <212> DNA  
 <213> Homo sapien

<400> 37  
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 aagtgtatgc ttacaaaat ccatctgctg acccctgctc tgtaccattt ttctttctt 300

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aaaatgtgct tttcaagttt gacttttag gatgcaatta attcactaaa tacagaactt	420
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cacttacaca tccccctccc ccatgaacta tttggaaaaa gctgcaggcg taatattgga	600
tccctaaata ctttattctc cttataccat tatcagaccc aagtatcatc taatagtcca	660
taatcaaact gcotaaaagca gtttctacac tgtctttta actattcaa actatcaagg	720
tccgcatttt ctcccttaga acttttagtc ttttcttcc cccaaatatt tgagtccatg	780
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aaatttaaat ttagtgttat ttttgtgtc atcgttccctt cttcctcatg tgggtgtgca	900
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<210> 38  
 <211> 710  
 <212> DNA  
 <213> Homo sapien

<400> 38 gagatcacca ctataggca atgttccctct agatgctgct cgagcggcgc agtgtgtatgg	60
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cctcatgtat ccatgtact gactaaaaa tacttcagcc acagaaagct aaaactgagc	180
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<210> 39  
 <211> 2399  
 <212> DNA  
 <213> Homo sapien

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	aagggtaaaa	taatcatagt	accacattgg	tccacttgac	actaaccaat	cgatcatttt	240
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	ctagttagaa	aaagttata	aatgtttgc	aaagataagt	aacagataga	gtcagtagag	360
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	gcaaaactga	cttacttagg	gaagaaagtt	ataaaacagg	aaaatatgag	atgaacctt	480
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	gggctcacat	tcagtattgc	agttgcaaaag	ctcatgatct	atagtgc当地	gttgc当地at	960
	tgttagtcaat	gtcacaat	ttacccttt	ttatattcct	tgatattttt	ccatggcaaa	1020
	caattagcta	tttcattaa	taatcaccta	aaactttca	gtcttctgat	taaaattacg	1080
	ctggagtgat	agaatgtatt	ttcatgatag	aaattggaa	aaaaaatggg	gaatgaagtt	1140

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 <211> 538  
 <212> DNA  
 <213> Homo sapien

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<210> 41  
 <211> 1643  
 <212> DNA  
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	aacatgtttgc	ccatgcaagg	ttatggc	tctgcatttgc	agtgataatgc	ttgaatcaat	900
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<210> 42  
 <211> 711  
 <212> DNA  
 <213> Homo sapien

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<210> 43  
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 <212> DNA  
 <213> Homo sapien

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tgaacaatat tttgaatata	360
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cacttaaaaa tggtaaaat	
ggtaaaattt acacgatatg	420
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gaaaactgtc tacaggggag	540
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acagtgtgaa accctagaca	780
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<211> 420

<212> DNA

<213> Homo sapien

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 <211> 241  
 <212> DNA  
 <213> Homo sapien

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acttgagttt gattaccaaa ttgatttctg tgaattacat ttcaattctg tgcagaactt	180
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c	241

<210> 66  
 <211> 368  
 <212> DNA  
 <213> Homo sapien

<400> 66	
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ctagaggaa ggaatcttgt cttatacatt aaaaaaaaaaaa aaaaaaaaaagt cttatccagt	120
ctgaagtacg gtgcctggca cattaattcc tttcctctt tcccctcact gccaaatgag	180
ctattgccac tcacttgata tgcaaacact ggctgtctag tatggaaaaa tattttctg	240
gctgttagact tgagtttgat taccaaattt atttctgtga attacatttc aattctgtgc	300
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tctgtgac	368

<210> 67  
 <211> 745  
 <212> DNA

<213> Homo sapien

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taaacatggt ggcatacggt cttatagaat gtctgaacca tatgcgtcat tgtagatata	360	
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gcacaactat cgccgacgca acagggccac tgaataccgc cacagagcga cacgcgacga	600	
cttcacacccg cgaccgtacg acgcacacgg caacacaaaag acgcgcccag gcaaccacat	660	
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<210> 68

<211> 1064

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (93)..(93)

<223> a, c, g or t

<400> 68		
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gataaataag gcaaatttac ccccttaaa tggtaacta attttgctc ccaccagctg	360	
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cgcgccgagg caaccacata cggacacgca agaacggcag atggcgacca cgcgccaaac	1020
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<210> 69  
 <211> 549  
 <212> DNA  
 <213> Homo sapien

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catgttatgg agaattctat attacaaatc tggccctta taatatgaac aggaggcgtc	300
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ctaccataga gtatcttc taattaaaat gacggaaat atatggaagc agaaaccagc	420
acaaagcaact acccatctag aaataatctt tcagttaaaa aacaactctc aaaaccagca	480
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ttaaaggta	549

<210> 70  
 <211> 774  
 <212> DNA  
 <213> Homo sapien

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caccatgctg gcttggacag aattaatttc	360
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aaatgggttt aaacactaat ttgatttctc ttctgactag	720
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<210> 71  
 <211> 881  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (601)..(601)  
 <223> a, c, g or t

<400> 71	
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gttgcttcg gctaacgtt gagacctcat gatacttcac cccatataat	180
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<210> 72
<211> 1735
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1024)..(1024)
<223> a, c, g or t

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<400> 72						
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<210> 73  
 <211> 429  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (231)..(231)  
 <223> a, c, g or t

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 <223> a, c, g or t

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cgaaccattta acaacttttc ctgggttatt cgacaacaaa aaaaacaaaaa aacaaaaaaaaa	360
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<210> 74  
 <211> 563  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature

<222> (49)..(49)  
 <223> a, c, g or t

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<210> 75  
 <211> 1775  
 <212> DNA  
 <213> Homo sapien

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<211> 511
<212> DNA
<213> Homo sapien

<400> 76
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acaagggggg gtttcttgg aattgcccattt atttttatct tgccaaaaaaa aagctctgca 300
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511
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<210> 77
<211> 646
<212> DNA
<213> Homo sapien

<400> 77
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ctggtttatac agtcccgctt gacatacaggc taaaggaaat ttatgttgg gggaaaaagg      180
ccctctgttc actttaaaat tcagtgtgga cttatgcca agggggctgt ttaagttgaa      240
agaaggccaag ttaagttgg cctcttgctt ggaatcactt gaattctgaa atttcactgc      300
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tctgcaccta ttaaaaagtg atgtatatac ttccttctta ttctgtttag ttgtatagaa      420
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cactttttc cctcctgcga aaaaaaaaaa aaggctggc gtatcgtggc aaagctgtgc      540
ctgggtgaat ggtttccgctt ccatcccatc tcgcagcaaa aaaatgtgtc gaaaccgaag      600
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<210> 78
<211> 493
<212> DNA
<213> Homo sapien

<220>
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<222> (264)..(264)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (250)..(250)
<223> a, c, g or t

<220>
<221> misc_feature
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<223> a, c, g or t

<220>
<221> misc_feature
<222> (311)..(312)
<223> a, c, g or t

<400> 78

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<210> 79  
 <211> 704  
 <212> DNA  
 <213> Homo sapien

<400> 79	
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<210> 80  
 <211> 455  
 <212> DNA  
 <213> Homo sapien

<400> 80	
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<210> 81  
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 <212> DNA  
 <213> Homo sapien

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<210> 82  
 <211> 71  
 <212> PRT  
 <213> Homo sapien

<400> 82

Met Phe Asn Thr Ala Asn Gly Trp Leu Leu Val Asp Asp Ile Ile Ser			
1	5	10	15

His His Gln Met Trp Val Trp Trp Gly Arg Gln Leu His Asp Gly Asp			
20	25	30	

Lys Gln Ile Ala Ala Gly Gly Arg Pro Ile Leu Tyr Leu Phe Glu			
35	40	45	

Arg Arg Ala Cys Val Val Leu Cys Gly Asn Tyr Leu Arg Leu Leu Ala			
50	55	60	

Cys Ser Pro Asn Asn Asn Ile			
65	70		

<210> 83  
 <211> 16  
 <212> PRT  
 <213> Homo sapien

<400> 83

Met Ala Phe Cys Thr Gly Lys Leu Thr Leu Lys Gln Thr Leu Ser Ser			
1	5	10	15

<210> 84  
 <211> 47  
 <212> PRT  
 <213> Homo sapien

<400> 84

Met Leu Gly Cys Phe Val Arg Ile Ile Val Val Val Ser Ser Leu Ser  
 1 5 10 15

Val Leu Arg Cys Gly Leu Gly Trp Val Glu Tyr Leu Gly Gly Arg Ile  
 20 25 30

Val Arg Ala Gly Ile Thr Asn Phe His Asn Gln Gly Glu His Gly  
 35 40 45

<210> 85  
 <211> 181  
 <212> PRT  
 <213> Homo sapien

<400> 85

Met Val Val Asp Pro Pro Arg Gly Gly Ser Leu Ser Phe Ser Gln Leu  
 1 5 10 15

Ser Gln Pro Thr Trp Phe Ser Ser Pro Leu Pro Ser Trp Gly Val Pro  
 20 25 30

Arg Ala Pro Gln Ser Val Cys Ser Arg Cys Val Val Gly Lys Cys Val  
 35 40 45

Ser Leu Pro Pro His Arg Pro Ser Ser His Pro His Lys His Met Gln  
 50 55 60

Gln Arg Gln Glu His Lys Leu Val Pro Thr Gly Arg Pro Gly Arg Asn  
 65 70 75 80

Gly Arg Cys Glu Ala Arg Arg Asn His Met Gln Gly Thr Ala Ser Gln  
 85 90 95

Ser Pro Thr Arg Ile Ala Ala Ser Asp Arg Thr Asp Glu Gln Arg Ile  
 100 105 110

Ala Pro Pro His His Pro Pro Gly Pro Gln Gly Glu Ile Asn Thr Cys  
 115 120 125

Gly Arg Ala Ala Ser Lys Gly Pro Thr Thr Lys Leu Gly Ala Glu Ser  
 130 135 140

Gly Arg Thr Met Thr His Thr Glu Arg Arg Arg Pro Lys Gln His Leu  
 145 150 155 160

Ala Thr Asn Ala Gln Arg Pro Arg Leu His Arg His Pro Thr Cys Ile  
 165 170 175

Arg Arg Met Ser Asp  
 180

<210> 86  
 <211> 209  
 <212> PRT  
 <213> Homo sapien

<400> 86

Met Pro Ser Val Cys Ser Ala Cys Leu Val Gly Ser Cys Arg Ser Gly  
 1 5 10 15

Pro Ser Ala Leu Phe Leu Ser Ser Leu Leu Val Leu Val Cys Ser Phe  
 20 25 30

Ser Cys Ser Pro Tyr Ser Ala Ala Arg Ala Arg Ala Ala Val Leu Arg  
 35 40 45

Leu Ser Leu Arg Leu Val Arg Leu Pro Ala Ala Val Cys Cys Val Leu  
 50 55 60

Phe Phe Arg Phe Ser Leu Leu Phe His Ser Leu Cys Trp Leu Leu Val  
 65 70 75 80

Ser His Pro Gly Leu Val Ser Ala His Gly Val Ala Cys Ala Phe Leu  
 85 90 95

Leu Phe Pro Ala Val Gly Leu Ser Ser Leu Thr Leu Leu Leu Phe  
 100 105 110

Ala Val Ala Phe Arg Cys Ser Cys Ser Val Ser Ser Leu Ser Leu His  
 115 120 125

Phe Trp Trp Ser Leu Leu Leu Ser Gly Pro Ser Ser Val Phe Cys  
 130 135 140

Phe Gly Leu Phe Ser Val Val Val Ala Leu Leu Ile Val Gly Cys Val  
 145 150 155 160

Leu Arg Leu Ser Leu Trp Leu Ala Leu Leu Val Arg Trp Gly Thr Phe  
 165 170 175

Trp Gly Arg Gly Ile Pro Thr Phe Pro His Pro Gly Tyr Thr Leu Gly  
 180 185 190

Pro Val Phe Pro His Ala Phe Phe Phe Phe Phe Phe Phe Asn  
 195 200 205

Cys

<210> 87  
 <211> 29  
 <212> PRT  
 <213> Homo sapien

<400> 87

Met Arg Lys Trp Lys Ser Tyr Leu Gly Val Ile Thr Pro Asn Val Lys  
 1 5 10 15

Pro Glu Arg Gln Arg Tyr Thr His Leu Glu Gly Glu Glu  
 20 25

<210> 88  
 <211> 78  
 <212> PRT  
 <213> Homo sapien

<400> 88

Met Arg Val Ser Ala Val Val Cys Glu Lys Met Trp Cys Leu Pro Pro  
 1 5 10 15

Arg Ala Thr Asn Ile Ser His Thr Gln Ile Tyr Arg Ala Gln Thr Asn  
 20 25 30

Asn Gly Arg Arg Arg Ser Ser Arg Arg Thr Arg Ser Arg Ala Gly Glu  
 35 40 45

Glu Lys Pro Gly Gln Thr Gly Asp Thr Gly Ser Asn Arg Arg Gly Val  
 50 55 60

Arg Asp Arg Lys Lys Asp Gly Thr Arg Ala Thr Lys Ser Ala

65

70

75

<210> 89  
 <211> 61  
 <212> PRT  
 <213> Homo sapien

<400> 89

Met Pro Val Ile Leu Ala Leu Trp Glu Ala Lys Ala Asp Gly Ser Leu  
 1 5 10 15

Glu Pro Arg Ser Leu Arg Pro Ala Trp Ala Thr Trp Gln Asn Pro Ile  
 20 25 30

Ser Thr Lys Asn Thr Lys Ser Arg Pro Gly Thr Val Val His Thr Cys  
 35 40 45

Asn Pro Gly Ile Leu Gly Gly Arg Asp Arg Trp Ile Thr  
 50 55 60

<210> 90  
 <211> 42  
 <212> PRT  
 <213> Homo sapien

<400> 90

Met Gly Ser Cys Ser Val Ala Gln Val Gly Val Met Trp His Asp Leu  
 1 5 10 15

Gly Ser Leu Gln Pro Leu Pro Pro Gly Phe Lys Gln Phe Ser Cys Pro  
 20 25 30

Ser Leu Leu Ser Ser Trp Asp Tyr Arg Arg  
 35 40

<210> 91  
 <211> 52  
 <212> PRT  
 <213> Homo sapien

<400> 91

Met Leu Pro Ser Ser Gly Val Tyr Ile Ser Ala Leu Leu Tyr Ile  
 1 5 10 15

Glu Leu Cys Thr Thr Asn Ile His Ser His Cys Val Asn Asn Pro Asn  
 20 25 30

Ile Thr Lys Gly Phe Arg Pro Gly Gly Glu Trp Ala Phe Phe Arg Ser  
 35 40 45

Pro Thr Asn Cys  
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<210> 92  
 <211> 143  
 <212> PRT  
 <213> Homo sapien  
 <400> 92

Met Pro Leu Leu Pro Gly Ser Leu Ala Ser Phe Phe Ser Leu Thr Cys  
 1 5 10 15

Val Asp Leu Ser Leu Arg Leu Ser Ser Ser Leu Cys Pro Leu Ser Leu  
 20 25 30

Pro Pro Cys Pro Pro Pro Ile Pro Val Pro Leu Ala Arg Pro Ser Leu  
 35 40 45

Phe Phe Ala Ala Phe Ser Pro Leu Ser Ser Leu Ala Phe Arg Ser Pro  
 50 55 60

Leu Ser Ser His Tyr Val Leu Leu Pro Asp Asp Arg Phe Arg Asp Val  
 65 70 75 80

Pro Ala Val Pro Arg Thr Ser Thr Pro Pro Phe Ser Thr Ala Ser Arg  
 85 90 95

Leu Leu Arg Leu His Pro Thr Ser Lys Leu Arg Pro Tyr His Pro Pro  
 100 105 110

Asn Thr Ala Pro Cys Cys Asn Thr Pro Ser His Leu Pro Ala His Ala  
 115 120 125

Pro Val Pro Pro Ser Arg His Leu Pro Leu Ser Pro Leu Ala Ser  
 130 135 140

<210> 93  
 <211> 83  
 <212> PRT  
 <213> Homo sapien  
 <400> 93

Met Lys Trp Gly Pro Lys Lys Arg Gly Ile Gln Glu Thr Ser Ser His  
 1 5 10 15

Thr Glu Arg Ser Pro Phe His Arg Arg Gly Gly Pro Val Gly Pro Pro  
 20 25 30

Val Ala Gly Ala Val Val Ser Leu Asn Asn Thr His Pro Ser Arg Thr  
 35 40 45

Asn Arg Leu Leu Ser Ile Ile Phe Pro Arg Pro Pro Pro Arg Gly  
 50 55 60

Pro Leu Pro Pro Phe Gly Ala Pro Pro Pro Gln Ile Lys Lys Pro Ile  
 65 70 75 80

Pro Phe Phe

<210> 94

<211> 73

<212> PRT

<213> Homo sapien

<400> 94

Met Glu Leu Arg Pro Ser Leu Ser Gly Ile Lys Lys Ala Lys Val Pro  
 1 5 10 15

Pro Thr Pro Pro Pro Pro Tyr Glu Asn His Gln Ser His His Leu Gly  
 20 25 30

Gly Asp Pro Lys His Leu Gly Pro Ile Leu Gln Val Lys Thr Ile Arg  
 35 40 45

Arg Asn Val Trp Asp Thr Gln Asn Glu Ile Ala Asn Gly Arg Arg Asp  
 50 55 60

Ala Pro Cys Gln Leu Cys Phe Ser Asp  
 65 70

<210> 95

<211> 37

<212> PRT

<213> Homo sapien

<400> 95

Met Ser Pro Leu Arg Tyr Leu Thr Arg Phe Gln Phe Ser Gly Gly Pro

76

1

5

10

15

Val Arg Lys Gly Lys Gly Glu Lys Ser Asn Ile Asn Ser Val Leu Ala  
20 25 30

Gly Glu Leu Pro Ile  
35

<210> 96  
<211> 151  
<212> PRT  
<213> Homo sapien

<400> 96

Met Phe Ser Cys Leu Gly Asn Gly Pro Arg Gly Phe Ala Pro Cys Ile  
1 5 10 15

Trp Glu Gly Pro Leu Gly Cys Ser Leu Arg Ser Asp Ser Ala Trp Arg  
20 25 30

Leu Val Pro Arg Ser Ser Gly Pro Leu Val Cys Val Phe Phe Val Arg  
35 40 45

Ser Asn Gly Val Gln Thr Val Val Pro Val Gly Ile Arg Ala Ser Ile  
50 55 60

Ala Val Gly Val Ser Val Ala Leu Tyr Trp Arg Trp Leu Phe Ser Ala  
65 70 75 80

Ser Val Leu Glu Cys Val Ile Leu Ala His Val Val Tyr Leu Leu Cys  
85 90 95

Pro Pro Leu Asp Arg Ser Leu Phe Cys Phe Glu Arg Met Ser Trp Thr  
100 105 110

Ser Leu Cys Phe Leu Val Arg Ala His Ser Asp Val Val Arg Leu Leu  
115 120 125

Leu Cys Phe Trp Met Gly Leu Leu Phe Trp Phe Val Gly Leu Met His  
130 135 140

Cys Gly Ile Cys Asn Gly Ser  
145 150

<210> 97

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 97

Met Ile Thr Thr Arg Glu His Ala Ser Glu Pro Leu Cys Asn Arg Pro  
 1 5 10 15

Arg Phe Thr Gly Ser Tyr Leu Gly Glu Ser Gly Leu Ser Arg Gly Ala  
 20 25 30

Leu Leu Val Val Thr Pro Gln Val Thr Met Leu Glu Leu Trp Ser Pro  
 35 40 45

His Tyr Ile Trp Cys Ser Ile Lys Tyr Gly Gly Leu  
 50 55 60

&lt;210&gt; 98

&lt;211&gt; 59

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 98

Met Trp Arg Arg Gly Ser Arg Ile Glu Arg Ile Asn Thr Ala Met Ile  
 1 5 10 15

Arg Leu Ile Thr Arg Val Cys Leu Ser Asp Phe Met Leu Phe Ala Cys  
 20 25 30

Leu Val Thr Tyr Gln Phe Arg Arg Asn Gly Met Thr His Ala Leu Leu  
 35 40 45

Ser Ser His His Ser Ile Arg Leu Thr His Ala  
 50 55

&lt;210&gt; 99

&lt;211&gt; 133

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 99

Met Cys Asp Trp Glu Asn Ala Ser Gly Arg Ser Lys Cys Asp Arg Pro  
 1 5 10 15

Thr Ser Leu Arg Gln Leu Pro Ala Arg Arg Arg Ile Leu Ala Arg Thr  
 20 25 30

Val Pro Pro Gly Thr Met Ser His His Ala Phe Pro Thr Pro Leu Pro  
 35 40 45

His Phe His His Ala His Arg Ala Ala Thr Gly Asp His Thr Trp  
 50 55 60

Arg Thr Trp Pro Tyr Phe Phe Cys Ile Glu Trp Glu Gln Arg Leu Leu  
 65 70 75 80

Leu Ser Pro Leu Gln Asp Phe Leu Arg Ala Ala Phe Asp Cys Ser Ser  
 85 90 95

Phe Val Arg Cys Gly Val His Gln Pro Thr Ala Val Arg Gln Met Ser  
 100 105 110

Arg Ala Pro Gly His Gly Thr Arg Arg Pro Pro Cys Ala Arg Val Pro  
 115 120 125

Arg Pro Arg Pro Arg  
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<210> 100

<211> 22

<212> PRT

<213> Homo sapien

<400> 100

Met Gln Asp Gln Ala Arg Thr Asn Lys Glu Gln Gln Thr Arg Thr Lys  
 1 5 10 15

Arg Ser Glu Gln Ala Ser  
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<210> 101

<211> 52

<212> PRT

<213> Homo sapien

<400> 101

Met Phe Tyr Ile Lys Ser Met Leu Leu Leu Asp Glu Lys Asn Leu Lys  
 1 5 10 15

Lys Gln Lys Lys Lys Lys Lys Lys Lys Arg Leu Gly Glu Leu Gly  
 20 25 30

Lys Gly Ala Pro Gly Gly Ile Gly Tyr Arg Ser Lys Ser Thr Lys Asn  
 35 40 45

Arg Arg Lys Val  
 50

<210> 102

<211> 80

<212> PRT

<213> Homo sapien

<400> 102

Met Phe Cys Gly Gly Val Cys Leu Ala Thr Pro Ser Arg Leu Trp Ile  
 1 5 10 15

Leu Pro Pro Thr Ser Ser Pro Ser Leu Leu Ser His Leu Gly Gly Gly  
 20 25 30

Asp Ser Leu Ser Leu Val Trp Cys Val Met Pro Arg Leu Phe Cys Leu  
 35 40 45

Ala Val His Thr Asp Ile Leu Arg Arg Arg Cys Phe Tyr Gly Gly Gly  
 50 55 60

Arg Pro Thr Val Leu Leu Thr Pro Pro Leu Met Tyr Pro Ala Ala Asp  
 65 70 75 80

<210> 103

<211> 120

<212> PRT

<213> Homo sapien

<400> 103

Met Leu His Gln Phe Phe Val Ser Ala Lys Ile Phe Phe Val Trp Arg  
 1 5 10 15

Ile Leu Cys Gly Arg Gly Gly Tyr Thr His Phe Phe His Thr His Gly  
 20 25 30

Gly Arg Thr His Ser Phe Cys Val Pro Ser Glu Val Tyr Arg Pro Pro  
 35 40 45

Arg Thr Phe Leu Phe Val Arg Tyr Thr Arg Glu Ile Leu Tyr Val Cys  
 50 55 60

Ser Leu Phe Ser His His Gly Ala Pro Gln Gly Glu Thr His Ser Trp

80

65

70

75

80

Cys Leu His Ser Val Ser Ala Leu Ser Ser Cys Ser Arg Glu Lys Ser  
85 90 95

Arg Arg His Pro Thr Thr Arg Glu Trp Trp Leu His Ala Ile Glu Cys  
100 105 110

Val Phe Gln Ser Glu Ile Phe Leu  
115 120

<210> 104

<211> 28

<212> PRT

<213> Homo sapien

<400> 104

Met Arg Glu Ala Glu Ser Gly Phe Lys Gln Ile Gly Val Arg Gln Ala  
1 5 10 15

Thr Leu Tyr Phe Ser Val Leu Ala Tyr Gln Cys Cys  
20 25

<210> 105

<211> 150

<212> PRT

<213> Homo sapien

<400> 105

Met Ser Gly Glu Leu Ser Asn Arg Phe Gln Gly Gly Lys Ala Phe Gly  
1 5 10 15

Leu Leu Lys Ala Arg Gln Glu Arg Arg Leu Ala Glu Ile Asn Arg Glu  
20 25 30

Phe Leu Cys Asp Gln Lys Tyr Ser Asp Glu Glu Asn Leu Pro Glu Lys  
35 40 45

Leu Thr Ala Phe Lys Glu Lys Tyr Met Glu Phe Asp Leu Asn Asn Glu  
50 55 60

Gly Glu Ile Asp Leu Met Ser Leu Lys Arg Met Met Glu Lys Leu Gly  
65 70 75 80

Val Pro Lys Thr His Leu Glu Met Lys Lys Met Ile Ser Glu Val Thr  
85 90 95

Gly Gly Val Ser Asp Thr Ile Ser Tyr Arg Asp Phe Val Asn Met Met  
 100 105 110

Leu Gly Lys Arg Ser Ala Val Leu Lys Leu Val Met Met Phe Glu Gly  
 115 120 125

Lys Ala Asn Glu Ser Ser Pro Lys Pro Val Gly Pro Pro Pro Glu Arg  
 130 135 140

Asp Ile Ala Ser Leu Pro  
 145 150

<210> 106  
 <211> 61  
 <212> PRT  
 <213> Homo sapien

<400> 106

Met Ser Lys Ser Leu Ile Ser Gln Lys Arg Leu Lys Ile Tyr Cys Asp  
 1 5 10 15

Ser Met Thr Ser Tyr Pro Lys Asp Lys Asn Val His Lys Ile Ser His  
 20 25 30

Ser Leu Asn Ile Cys Cys Tyr Phe His Ser Lys Met Ile Lys Ile Asn  
 35 40 45

Phe Ile Leu Pro Pro Val Gln Lys Tyr Leu Lys His Lys  
 50 55 60

<210> 107  
 <211> 32  
 <212> PRT  
 <213> Homo sapien

<400> 107

Met Gly Ser Asp Trp Gln Lys Leu Ile Ser Ser Gln Trp Glu Pro Thr  
 1 5 10 15

Glu Leu Ser Arg Val Pro Arg Lys Lys Thr Gly Ala Ile Ser Gln Ser  
 20 25 30

<210> 108  
 <211> 638  
 <212> PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 108

Met	Pro	Leu	Pro	Leu	Leu	Pro	Met	Asp	Leu	Lys	Gly	Glu	Pro	Gly	Pro
1				5					10				15		

Pro	Gly	Lys	Pro	Gly	Pro	Arg	Gly	Pro	Pro	Gly	Pro	Pro	Gly	Phe	Pro
						20		25				30			

Gly	Lys	Pro	Gly	Met	Gly	Lys	Pro	Gly	Leu	His	Gly	Gln	Pro	Gly	Pro
						35		40			45				

Ala	Gly	Pro	Pro	Gly	Phe	Ser	Arg	Met	Gly	Lys	Ala	Gly	Pro	Pro	Gly
						50		55			60				

Leu	Pro	Gly	Lys	Val	Gly	Pro	Pro	Gly	Gln	Pro	Gly	Leu	Arg	Gly	Glu
						65		70			75		80		

Pro	Gly	Ile	Arg	Gly	Asp	Gln	Gly	Leu	Arg	Gly	Pro	Pro	Gly	Pro	Pro
						85		90			95				

Gly	Leu	Pro	Gly	Pro	Ser	Gly	Ile	Thr	Ile	Pro	Gly	Lys	Pro	Gly	Ala
						100		105			110				

Gln	Gly	Val	Pro	Gly	Pro	Pro	Gly	Phe	Gln	Gly	Glu	Pro	Gly	Pro	Gln
						115		120			125				

Gly	Glu	Pro	Gly	Pro	Pro	Gly	Asp	Arg	Gly	Leu	Lys	Gly	Asp	Asn	Gly
						130		135			140				

Val	Gly	Gln	Pro	Gly	Leu	Pro	Gly	Ala	Pro	Gly	Gln	Gly	Gly	Ala	Pro
						145		150			155		160		

Gly	Pro	Pro	Gly	Leu	Pro	Gly	Pro	Ala	Gly	Leu	Gly	Lys	Pro	Gly	Leu
						165		170			175				

Asp	Gly	Leu	Pro	Gly	Ala	Pro	Gly	Asp	Lys	Gly	Glu	Ser	Gly	Pro	Pro
						180		185			190				

Gly	Val	Pro	Gly	Pro	Arg	Gly	Glu	Pro	Gly	Ala	Val	Gly	Pro	Lys	Gly
						195		200			205				

Pro	Pro	Gly	Val	Asp	Gly	Val	Gly	Val	Pro	Gly	Ala	Ala	Gly	Leu	Pro
						210		215			220				

Gly Pro Gln Gly Pro Ser Gly Ala Lys Gly Glu Pro Gly Thr Arg Gly  
225 230 235 240

Pro Pro Gly Leu Ile Gly Pro Thr Gly Tyr Gly Met Pro Gly Leu Pro  
245 250 255

Gly Pro Lys Gly Asp Arg Gly Pro Ala Gly Val Pro Gly Leu Leu Gly  
260 265 270

Asp Arg Gly Glu Pro Gly Glu Asp Gly Asp Pro Gly Glu Gln Gly Pro  
275 280 285

Gln Gly Leu Gly Gly Pro Pro Gly Leu Pro Gly Ser Ala Gly Leu Pro  
290 295 300

Gly Arg Arg Gly Pro Pro Gly Pro Lys Gly Glu Ala Gly Pro Gly Gly  
305 310 315 320

Pro Pro Gly Val Pro Gly Ile Arg Gly Asp Gln Gly Pro Ser Gly Leu  
325 330 335

Ala Gly Lys Pro Gly Val Pro Gly Glu Arg Gly Leu Pro Gly Ala His  
340 345 350

Gly Pro Pro Gly Pro Thr Gly Pro Lys Gly Glu Pro Gly Phe Thr Gly  
355 360 365

Arg Pro Gly Gly Pro Gly Val Ala Gly Ala Leu Gly Gln Lys Gly Asp  
370 375 380

Leu Gly Leu Pro Gly Gln Pro Gly Leu Arg Gly Pro Ser Gly Ile Pro  
385 390 395 400

Gly Leu Gln Gly Pro Ala Gly Pro Ile Gly Pro Gln Gly Leu Pro Gly  
405 410 415

Leu Lys Gly Glu Pro Gly Leu Pro Gly Pro Pro Gly Glu Gly Arg Ala  
420 425 430

Gly Glu Pro Gly Thr Ala Gly Pro Thr Gly Pro Pro Gly Val Pro Gly  
435 440 445

Ser Pro Gly Ile Thr Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro  
450 455 460

Pro Gly Ala Pro Gly Ala Phe Asp Glu Thr Gly Ile Ala Gly Leu His  
 465 470 475 480

Leu Pro Asn Gly Gly Val Glu Gly Ala Val Leu Gly Lys Gly Gly Lys  
 485 490 495

Pro Gln Phe Gly Leu Gly Glu Leu Ser Ala His Ala Thr Pro Ala Phe  
 500 505 510

Thr Ala Val Leu Thr Ser Pro Phe Pro Ala Ser Gly Met Pro Val Lys  
 515 520 525

Phe Asp Arg Thr Leu Tyr Asn Gly His Ser Gly Tyr Asn Pro Ala Thr  
 530 535 540

Gly Ile Phe Thr Cys Pro Val Gly Gly Val Tyr Tyr Phe Ala Tyr His  
 545 550 555 560

Val His Val Lys Gly Thr Asn Val Trp Val Ala Leu Tyr Lys Asn Asn  
 565 570 575

Val Pro Ala Thr Tyr Thr Asp Glu Tyr Lys Lys Gly Tyr Leu Asp  
 580 585 590

Gln Ala Ser Gly Gly Ala Val Leu Gln Leu Arg Pro Asn Asp Gln Val  
 595 600 605

Trp Val Gln Met Pro Ser Asp Gln Ala Asn Gly Leu Tyr Ser Thr Glu  
 610 615 620

Tyr Ile His Ser Ser Phe Ser Gly Phe Leu Leu Cys Pro Thr  
 625 630 635

<210> 109

<211> 78

<212> PRT

<213> Homo sapien

<400> 109

Met Thr Ser Leu Leu Ser Leu Ile Pro Asn Met Gln Val Phe Asn Cys  
 1 5 10 15

Leu Met Arg Val Glu Trp Ser Tyr Val Ser Leu Leu Phe Gly Leu Thr  
 20 25 30

Lys Ile Asn His Asn Phe Gln Gly Ile Phe Met Gly Cys Asp Trp Lys  
 35 40 45

Leu Thr Leu Val Leu Arg Leu Ile Leu Tyr Asp Val Glu Lys Ser Ser  
 50 55 60

Asn Phe Ser Glu Leu Phe Leu Ile Ser Asn Thr Val Ile Thr  
 65 70 75

<210> 110

<211> 19

<212> PRT

<213> Homo sapien

<400> 110

Met Gly Arg Glu Arg Met Leu Ile Phe Lys Phe Leu Ser Leu Val Lys  
 1 5 10 15

Phe Cys Ile

<210> 111

<211> 36

<212> PRT

<213> Homo sapien

<400> 111

Met Thr Lys Ser His Lys Lys Ser Thr Arg Ser Pro Leu Cys Ala Trp  
 1 5 10 15

Leu Leu Phe Lys Lys Lys Lys Asn Pro Val Tyr Leu Trp Thr His Ser  
 20 25 30

Met Arg Thr Met

35

<210> 112

<211> 36

<212> PRT

<213> Homo sapien

<400> 112

Met Gln Met Pro Asn Asn Pro Cys Met Ala Asn Met Phe Thr Leu Ser  
 1 5 10 15

Leu Met Asn Thr Met Arg Thr Val Ser Cys Thr Val His Arg His Ser  
 20 25 30

Pro Ser His Asp  
 35

<210> 113  
 <211> 66  
 <212> PRT  
 <213> Homo sapien

<400> 113

Met Trp Val Thr Met Gln Met Phe Met Asn Asn Phe Thr Glu Val Ile  
 1 5 10 15

Pro Ser Val Phe Cys Ser Asn Thr Trp Arg Met Thr Phe Ile Phe Ile  
 20 25 30

Tyr Phe Ile Ser Leu Phe Gln Leu Ser Ser Asp Asn Ser Gly Asn Val  
 35 40 45

Ser Phe Phe Phe Phe Phe Thr Lys Thr Phe Tyr Cys Val Thr Cys Cys  
 50 55 60

Ile Met  
 65

<210> 114  
 <211> 101  
 <212> PRT  
 <213> Homo sapien

<400> 114

Leu Phe Tyr Leu Arg Arg Gly Phe Ala Leu Ser Pro Ser Leu Asp Phe  
 1 5 10 15

Ser Gly Thr Ile Leu Ala Tyr Cys Asn Leu His Leu Leu Gly Ala Asn  
 20 25 30

Asn Pro Pro Thr Ser Val Ser Ala Val Ala Gly Thr Thr Gly Thr Cys  
 35 40 45

His His Ala Gln Leu Ile Phe Ile Phe Leu Leu Glu Thr Glu Phe His  
 50 55 60

Tyr Val Ala Gln Val Gly Leu Lys Ile Pro Ser Ser Asp Val Pro

65

70

75

80

Thr Leu Ala Ser Gln Ser Ala Arg Thr Thr Gly Met Ser His Cys Ala  
85 90 95

Gln Pro Ser Phe Phe  
100

<210> 115

<211> 48

<212> PRT

<213> Homo sapien

<400> 115

Met Asn His Leu Ile Ile Lys Tyr Leu Ala Asp Phe Gly Arg Gly Leu  
1 5 10 15

Val Val Asp Asp Leu Thr Ser Ile Asn His Leu Ala Ala Pro Arg Ile  
20 25 30

His His Thr Ala Pro Leu Glu His Asp Leu Glu Ala His Ser Pro Ile  
35 40 45

<210> 116

<211> 53

<212> PRT

<213> Homo sapien

<400> 116

Met Asn Thr Ser Ser Arg Leu Val Ser Ile Ser Lys Arg Thr Ser Arg  
1 5 10 15

Asn Ala Ser Ala Ala Val Cys Ala Trp Glu Ser Gln Arg Gly Asn Leu  
20 25 30

Pro Ser Pro Pro Ser Arg Ala Gly Gly Glu Gln Glu Asp Thr Leu Pro  
35 40 45

His Leu Gly Arg Asp  
50

<210> 117

<211> 41

<212> PRT

<213> Homo sapien

<400> 117

Met Asp Leu Ile Gln Ser Thr Ser Phe Cys Tyr Asn Ser Tyr Ile His  
 1 5 10 15

Thr Tyr Leu Ser Lys Leu Thr Leu Val His Arg His His Phe Thr Gly  
 20 25 30

Pro Ser Ser Thr Leu Cys Val Ile His  
 35 40

<210> 118

<211> 88

<212> PRT

<213> Homo sapien

<400> 118

Met Cys Ile Asn Leu Asn Asn Thr Gln Lys Asn Tyr Asn Leu Lys Ile  
 1 5 10 15

Ala Val Phe Asn Met Arg Ile Ile Tyr Val Cys Lys Tyr Ser Thr Lys  
 20 25 30

Lys Asn Gln Lys Cys Gly Ile Ile Leu Gln Glu Lys Ile Phe Lys Met  
 35 40 45

Glu Ser Pro Phe Met Asn Val Leu Ile Leu Lys Ser Lys Val Met Phe  
 50 55 60

Phe Tyr Asn Val Tyr Ile Ile Met Phe Thr Lys Ala Ile Lys Ser Phe  
 65 70 75 80

Gln Lys Val Leu Ile Leu Gln Ile  
 85

<210> 119

<211> 25

<212> PRT

<213> Homo sapien

<400> 119

Met Thr Thr Cys Phe Thr Trp Ser Tyr Phe Ala Ile Trp Thr Ile Leu  
 1 5 10 15

Leu Ser Glu Leu Ile Leu His Thr Cys  
 20 25

&lt;210&gt; 120

&lt;211&gt; 109

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 120

Cys	Phe	Tyr	Asp	Leu	Leu	Gly	Arg	Pro	Gly	Pro	Met	Leu	Ser	Ala	Gly
1				5				10						15	

Leu	Ile	Phe	Leu	Phe	Leu	Phe	Glu	Thr	Glu	Ser	Arg	Ser	Pro	Ser	Arg
							20		25			30			

Leu	Lys	Cys	Ser	Gly	Val	Ile	Ser	Ala	His	Cys	Asn	Leu	Cys	Leu	Pro
							35		40			45			

Gly	Ser	His	Glu	Ser	Ser	Ala	Ser	Ala	Ser	Ala	Val	Ala	Gly	Thr	Thr
							50		55			60			

Gly	Thr	Cys	His	His	Thr	Gln	Leu	Ile	Phe	Val	Phe	Leu	Val	Glu	Thr
							65		70			75		80	

Gly	Phe	His	His	Val	Gly	Gln	Asp	Gly	Leu	Glu	Pro	Leu	Thr	Gln	Val
							85		90			95			

Ile	Ser	Pro	Pro	Gln	Leu	Pro	Lys	Val	Leu	Gly	Leu	Gln			
							100		105						

&lt;210&gt; 121

&lt;211&gt; 66

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 121

Met	Ser	Asn	Val	Ile	Ile	Met	Leu	Arg	Thr	Ser	Arg	Ser	Phe	Ser	Ile
1							5		10			15			

Leu	Thr	Gly	Phe	Ile	His	Ile	Leu	Leu	Leu	Tyr	Ser	Asn	Ile	Ala	Leu
							20		25			30			

Lys	Val	Leu	Thr	Val	Ser	Val	Ala	Lys	Ser	Ile	Ile	Ser	Trp	Thr	Ile
							35		40			45			

Leu	Asn	Gly	Met	Phe	Thr	Arg	Pro	Lys	Met	Lys	Val	Leu	Lys	Ser	Tyr
							50		55			60			

Leu Phe

65

<210> 122  
 <211> 41  
 <212> PRT  
 <213> Homo sapien

&lt;400&gt; 122

Met Pro Leu Leu Phe Lys Asn Cys Ala Val Ile Thr Val Leu Ile Leu  
 1 5 10 15

Val Tyr Leu Gly Ile Tyr Pro Ser Val Val Phe Ile Leu Ile Leu Ser  
 20 25 30

Ile Thr Leu Arg Arg Ser Ser Ser Ile  
 35 40

<210> 123  
 <211> 28  
 <212> PRT  
 <213> Homo sapien

&lt;400&gt; 123

Met Ser Ser Val Lys Asn Ser Lys Leu Leu Val Leu Pro Ile Pro Asn  
 1 5 10 15

Pro Tyr Leu Thr Gln Leu Ser Lys Met Phe Thr Ser  
 20 25

<210> 124  
 <211> 58  
 <212> PRT  
 <213> Homo sapien

&lt;400&gt; 124

Met Leu Gly Asn Leu Gly Gly Lys Pro Asn Phe Pro Pro Gly Pro Val  
 1 5 10 15

Leu Ala Pro Gly Ser Pro Arg Leu Phe Leu Leu Leu Cys Val Gly Val  
 20 25 30

Phe Phe Val Ser Lys Thr Leu Asp Asn Leu Phe Gln Ile Tyr Ser Lys  
 35 40 45

Ile Leu Lys His Cys Ile Asn Ile Lys Val  
 50 55

<210> 125  
 <211> 98  
 <212> PRT  
 <213> Homo sapien

<400> 125

Phe Leu Phe Leu Arg Gln Ser Phe Ala Leu Ala Thr Gln Ala Gly Val  
 1 5 10 15

Arg Trp Cys Asp Leu Gly Ser Pro Gln Pro Pro Pro Gly Leu Lys  
 20 25 30

Arg Leu Ser Cys Leu Ser Pro Pro Ser Arg Trp Asp Tyr Arg Pro Gly  
 35 40 45

Pro Pro His Pro Ala Asn Phe Ala Leu Pro Val Glu Met Gly Ser Leu  
 50 55 60

His Val Gly Gln Ala Gly Leu Gln Pro Leu Thr Ser Ser Asp Pro Pro  
 65 70 75 80

Ala Pro Ala Ser Gln Ser Ala Gly Thr Thr Asp Val Ser His Trp Thr  
 85 90 95

Arg Pro

<210> 126  
 <211> 45  
 <212> PRT  
 <213> Homo sapien

<400> 126

Met Lys Ile Cys Leu Lys Phe Asn Trp Asn His Gly Ile Ser His Gln  
 1 5 10 15

Phe Glu Leu Ser Asn Met Pro Asn Leu Asp Ile Leu Ile Leu Glu Asn  
 20 25 30

Gln Phe Leu Lys Ile Leu Lys Cys Ser Val Phe Arg Thr  
 35 40 45

<210> 127  
 <211> 1088  
 <212> PRT  
 <213> Homo sapien

&lt;400&gt; 127

Asp Asp Ser Leu Ile Ser Ser Ala Thr Ala Ile Met Glu Ala Val Val  
1 5 10 15

Arg Glu Trp Ile Leu Leu Glu Lys Gly Ser Ile Glu Ser Leu Arg Thr  
20 25 30

Phe Leu Leu Thr Tyr Val Leu Gln Arg Pro Asn Leu Gln Lys Tyr Val  
35 40 45

Arg Glu Gln Ile Leu Leu Ala Val Ala Val Ile Val Lys Arg Gly Ser  
50 55 60

Leu Asp Lys Ser Ile Asp Cys Lys Ser Ile Phe His Glu Val Ser Gln  
65 70 75 80

Leu Ile Ser Ser Gly Asn Pro Thr Val Gln Thr Leu Ala Cys Ser Ile  
85 90 95

Leu Thr Ala Leu Leu Ser Glu Phe Ser Ser Ser Ser Lys Thr Ser Asn  
100 105 110

Ile Gly Leu Ser Met Glu Phe His Gly Asn Cys Lys Arg Val Phe Gln  
115 120 125

Glu Glu Asp Leu Arg Gln Ile Phe Met Leu Thr Val Glu Val Leu Gln  
130 135 140

Glu Phe Ser Arg Arg Glu Asn Leu Asn Ala Gln Met Ser Ser Val Phe  
145 150 155 160

Gln Arg Tyr Leu Ala Leu Ala Asn Gln Val Leu Ser Trp Asn Phe Leu  
165 170 175

Pro Pro Asn Leu Gly Arg His Tyr Ile Ala Met Phe Glu Ser Ser Gln  
180 185 190

Asn Val Leu Leu Lys Pro Thr Glu Ser Leu Arg Glu Thr Leu Leu Asp  
195 200 205

Ser Arg Val Met Glu Leu Phe Phe Thr Val His Arg Lys Ile Arg Glu  
210 215 220

His Ser Asp Met Ala Gln Asp Ser Leu Gln Cys Leu Ala Gln Leu Ala		
225	230	235
240		
Ser Leu His Gly Pro Ile Phe Pro Asp Glu Gly Ser Gln Val Asp Tyr		
245	250	255
Leu Ala His Phe Ile Glu Gly Leu Leu Asn Thr Ile Asn Gly Ile Glu		
260	265	270
Ile Glu Asp Ser Glu Ala Val Gly Ile Ser Ser Ile Ile Ser Asn Leu		
275	280	285
Ile Thr Val Phe Pro Arg Asn Val Leu Thr Ala Ile Pro Ser Glu Leu		
290	295	300
Phe Ser Ser Phe Val Asn Cys Leu Thr His Leu Thr Cys Ser Phe Gly		
305	310	315
320		
Arg Ser Ala Ala Leu Glu Glu Val Leu Asp Lys Asp Asp Met Val Tyr		
325	330	335
Met Glu Ala Tyr Asp Lys Leu Leu Glu Ser Trp Leu Thr Leu Val Gln		
340	345	350
Asp Asp Lys His Phe His Lys Gly Phe Phe Thr Gln His Ala Val Gln		
355	360	365
Val Phe Asn Ser Tyr Ile Gln Cys His Leu Ala Ala Pro Asp Gly Thr		
370	375	380
Arg Asn Leu Thr Ala Asn Gly Val Ala Ser Arg Glu Glu Glu Glu Ile		
385	390	395
400		
Ser Glu Leu Gln Glu Asp Asp Arg Asp Gln Phe Ser Asp Gln Leu Ala		
405	410	415
Ser Val Gly Met Leu Gly Arg Ile Ala Ala Glu His Cys Ile Pro Leu		
420	425	430
Leu Thr Ser Leu Leu Glu Glu Arg Val Thr Arg Leu His Gly Gln Leu		
435	440	445
Gln Arg His Gln Gln Leu Leu Ala Ser Pro Gly Ser Ser Thr Val		
450	455	460

Asp Asn Lys Met Leu Asp Asp Leu Tyr Glu Asp Ile His Trp Leu Ile  
 465 470 475 480

Leu Val Thr Gly Tyr Leu Leu Ala Asp Asp Thr Gln Gly Glu Thr Pro  
 485 490 495

Leu Ile Pro Pro Glu Ile Met Glu Tyr Ser Ile Lys His Ser Ser Glu  
 500 505 510

Val Asp Ile Asn Thr Thr Leu Gln Ile Leu Gly Ser Pro Gly Glu Lys  
 515 520 525

Ala Ser Ser Ile Pro Gly Tyr Asn Arg Thr Asp Ser Val Ile Arg Leu  
 530 535 540

Leu Ser Ala Ile Leu Arg Val Ser Glu Val Glu Ser Arg Ala Ile Arg  
 545 550 555 560

Ala Asp Leu Thr His Leu Leu Ser Pro Gln Met Gly Lys Asp Ile Val  
 565 570 575

Trp Phe Leu Lys Arg Trp Ala Lys Thr Tyr Leu Leu Val Asp Glu Lys  
 580 585 590

Leu Tyr Asp Gln Ile Ser Leu Pro Phe Ser Thr Ala Phe Gly Ala Asp  
 595 600 605

Thr Glu Gly Ser Gln Trp Ile Ile Gly Tyr Leu Leu Gln Lys Val Ile  
 610 615 620

Ser Asn Leu Ser Val Trp Ser Ser Glu Gln Asp Leu Ala Asn Asp Thr  
 625 630 635 640

Val Gln Leu Leu Val Thr Leu Val Glu Arg Arg Glu Arg Ala Asn Leu  
 645 650 655

Val Ile Gln Cys Glu Asn Trp Trp Asn Leu Ala Lys Gln Phe Ala Ser  
 660 665 670

Arg Ser Pro Pro Leu Asn Phe Leu Ser Ser Pro Val Gln Arg Thr Leu  
 675 680 685

Met Lys Ala Leu Val Leu Gly Gly Phe Ala His Met Asp Thr Glu Thr  
 690 695 700

Lys Gln Gln Tyr Trp Thr Glu Val Leu Gln Pro Leu Gln Gln Arg Phe  
 705 710 715 720

Leu Arg Val Ile Asn Gln Glu Asn Phe Gln Gln Met Cys Gln Gln Glu  
 725 730 735

Glu Val Lys Gln Glu Ile Thr Ala Thr Leu Glu Ala Leu Cys Gly Ile  
 740 745 750

Ala Glu Ala Thr Gln Ile Asp Asn Val Ala Ile Leu Phe Asn Phe Leu  
 755 760 765

Met Asp Phe Leu Thr Asn Cys Ile Gly Leu Met Glu Val Tyr Lys Asn  
 770 775 780

Thr Pro Glu Thr Val Asn Leu Ile Ile Glu Val Phe Val Glu Val Ala  
 785 790 795 800

His Lys Gln Ile Cys Tyr Leu Gly Glu Ser Lys Ala Met Asn Leu Tyr  
 805 810 815

Glu Ala Cys Leu Thr Leu Leu Gln Val Tyr Ser Lys Asn Asn Leu Gly  
 820 825 830

Arg Gln Arg Ile Asp Val Thr Ala Glu Glu Gln Tyr Gln Asp Leu  
 835 840 845

Leu Leu Ile Met Glu Leu Leu Thr Asn Leu Leu Ser Lys Glu Phe Ile  
 850 855 860

Asp Phe Ser Asp Thr Asp Glu Val Phe Arg Gly His Glu Pro Gly Gln  
 865 870 875 880

Ala Ala Asn Arg Ser Val Ser Ala Ala Asp Val Val Leu Tyr Gly Val  
 885 890 895

Asn Leu Ile Leu Pro Leu Met Ser Gln Asp Leu Leu Lys Phe Pro Thr  
 900 905 910

Leu Cys Asn Gln Tyr Tyr Lys Leu Ile Thr Phe Ile Cys Glu Ile Phe  
 915 920 925

Pro Glu Lys Ile Pro Gln Leu Pro Glu Asp Leu Phe Lys Ser Leu Met

930

935

940

Tyr Ser Leu Glu Leu Gly Met Thr Ser Met Ser Ser Glu Val Cys Gln  
 945 950 955 960

Leu Cys Leu Glu Ala Leu Thr Pro Leu Ala Glu Gln Cys Ala Lys Ala  
 965 970 975

Gln Glu Thr Asp Ser Pro Leu Phe Leu Ala Thr Arg His Phe Leu Lys  
 980 985 990

Leu Val Phe Asp Met Leu Val Leu Gln Lys His Asn Thr Glu Met Thr  
 995 1000 1005

Thr Ala Ala Gly Glu Ala Phe Tyr Thr Leu Val Cys Leu His Gln  
 1010 1015 1020

Ala Glu Tyr Ser Glu Leu Val Glu Thr Leu Leu Ser Ser Gln Gln  
 1025 1030 1035

Asp Pro Val Ile Tyr Gln Arg Leu Ala Asp Ala Phe Asn Lys Leu  
 1040 1045 1050

Thr Ala Ser Ser Thr Pro Pro Thr Leu Asp Arg Lys Gln Lys Met  
 1055 1060 1065

Ala Phe Leu Lys Ser Leu Glu Glu Phe Met Ala Asn Val Gly Gly  
 1070 1075 1080

Leu Leu Cys Val Lys  
 1085

<210> 128

<211> 33

<212> PRT

<213> Homo sapien

<400> 128

Met Glu Lys Tyr Phe Ser Gly Cys Arg Leu Glu Phe Asp Tyr Gln Ile  
 1 5 10 15

Asp Phe Cys Glu Leu His Phe Asn Ser Val Gln Asn Phe Leu Thr Ala  
 20 25 30

Leu

<210> 129  
 <211> 154  
 <212> PRT  
 <213> Homo sapien

<400> 129

Met Val Ile Leu Ser Phe Lys His Gly Gly Ile Val Ala Tyr Arg Met  
 1 5 10 15

Ser Glu Pro Tyr Ala Ser Leu Leu Asp Ile Tyr Ile Gly Ser His Phe  
 20 25 30

Ser Cys Ile Ile Tyr Trp Asp Val Phe Pro Ala Phe Ser Val Pro Ile  
 35 40 45

Asn Asn Thr Gln Asn Thr His Thr Pro Asn Pro Gly Ala Glu Asn Thr  
 50 55 60

Gly Ala Pro Thr Cys Pro Pro Gly Gly Asp Thr Val Arg Ser Pro Arg  
 65 70 75 80

Leu Gln Asn Ser Pro Gln His Asn Tyr Arg Arg Arg Asn Arg Ala Thr  
 85 90 95

Glu Tyr Arg His Arg Ala Thr Arg Asp Asp Phe Thr Pro Arg Pro Tyr  
 100 105 110

Asp Ala His Gly Asn Thr Lys Thr Arg Arg Gly Asn His Ile Arg Thr  
 115 120 125

Arg Glu Asn Gly Arg Trp Arg Pro Arg Ala Lys Pro Thr Lys Ser Thr  
 130 135 140

Thr His Arg Thr Thr His Asn Ala Arg Pro  
 145 150

<210> 130  
 <211> 37  
 <212> PRT  
 <213> Homo sapien

<400> 130

Met Phe Arg Leu Leu Leu Leu Asn Met Lys Pro Pro Cys Trp Leu  
 1 5 10 15

Asp Arg Ile Asn Phe Ile His Val Met Glu Asn Ser Ile Leu Gln Ile  
 20 25 30

Trp Ser Pro Ile Ile  
 35

<210> 131  
 <211> 72  
 <212> PRT  
 <213> Homo sapien

<400> 131

Met Ile Ser Trp Lys Ser Ile Leu His Pro Gly Arg Tyr Met Leu Ile  
 1 5 10 15

Tyr Met Gly Val Lys Tyr His Glu Val Ser Thr Phe Ser Gln Lys Gln  
 20 25 30

Arg Lys Glu Lys Glu Ile Tyr Ser His Pro Thr His Ile His Arg Tyr  
 35 40 45

Gly Lys Tyr His Gln Ala Leu Thr Leu Val Asn Leu Gly Glu Gly Tyr  
 50 55 60

Met Gly Phe Gln Cys Thr Ser Ala  
 65 70

<210> 132  
 <211> 43  
 <212> PRT  
 <213> Homo sapien

<400> 132

Met Pro Ser Phe Ser Pro Arg Gly Pro Leu Trp Pro Cys Val Pro Pro  
 1 5 10 15

Ala Phe Phe Phe Val Phe Cys Phe Phe Cys Cys Arg Ile His Gln Glu  
 20 25 30

Lys Leu Leu Met Val Arg Arg Glu Thr Trp Leu  
 35 40

<210> 133  
 <211> 61  
 <212> PRT

<213> Homo sapien

<400> 133

Met Asp Pro Pro Gly Gln Val Leu Phe Ile His Ile Ser Leu Gly Phe  
1 5 10 15

Leu Pro Leu Gly Asn Asn Cys Pro Ser Ile Tyr Leu Val Phe Phe Leu  
20 25 30

Val Thr Leu Ile Lys Leu Leu Thr Ser Thr Tyr Asn Ile Val Lys Pro  
35 40 45

Glu Tyr Leu Ile Leu Thr Val Lys Lys Asn Met Met Thr  
50 55 60

<210> 134

<211> 75

<212> PRT

<213> Homo sapien

<400> 134

Met Arg Ser Ile Phe Leu Gln Arg Pro Pro Leu Asn Ile Val Pro Gln  
1 5 10 15

Phe Ala Ala Lys Asn Ile Leu Ser Leu Lys Gln Arg Gly Val Ser Leu  
20 25 30

Glu Leu Pro Ile Phe Leu Ser Cys Gln Lys Lys Ala Leu Arg Val Ser  
35 40 45

Pro Cys Ile Tyr Ser Cys Val Pro Leu Cys Glu Phe Val Phe Pro Ser  
50 55 60

Thr His Phe Pro His Asn His Gln Arg Lys Gly  
65 70 75

<210> 135

<211> 74

<212> PRT

<213> Homo sapien

<400> 135

Met Glu Asn Val Thr Arg His Met Ser Val Ala Val Lys Phe Gln Asn  
1 5 10 15

Ser Ser Asp Ser Arg Gln Glu Ala Lys Leu Asn Leu Ala Ser Phe Asn

100

20

25

30

Leu Asn Ser Pro Leu Trp His Lys Ser Thr Leu Asn Phe Lys Val Asn  
35 40 45

Arg Gly Pro Phe Ser Pro Lys His Lys Phe Pro Leu Ala Val Cys Gln  
50 55 60

Ser Gly Leu Ile Asn Gln Leu Leu His Cys  
65 70

<210> 136

<211> 31

<212> PRT

<213> Homo sapien

<400> 136

Met His Gly Thr Ser Leu Pro Gln Leu Ala Ala Leu Gly Asp Phe Ser  
1 5 10 15

Ser Ser Leu Gly Asp Cys Val Ser His Leu Glu Ser Met Cys Val  
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<210> 137

<211> 56

<212> PRT

<213> Homo sapien

<400> 137

Met Leu Ala Glu Pro Ser Tyr Gly Pro Gln Ser Pro Pro Pro Pro Pro  
1 5 10 15

His Arg His Gly Leu Asn Gly Ser Pro Arg Phe Phe Leu Pro Arg Arg  
20 25 30

Pro Ala Arg Ala His Pro Ser Gln Leu Arg Arg Ser Ser Ser Ile Arg  
35 40 45

Gly Pro Ser Arg Leu Tyr Ile Asp  
50 55

1

1